

Round LED Lamp

Warm Super White, 5mm

multicomp PRO

**RoHS
Compliant**



Specifications:

Dice Material	: InGaN
Emitted Colour	: White
Lens Colour	: Water clear
Peak Wavelength	: $\lambda = 0.32$
Viewing Angle	: 16 Deg.
Luminous Intensity (IV)	: 25,000mcd

Absolute Maximum Ratings ($T_A = 25^\circ\text{C}$)

Reverse Voltage	5V
Reverse Current	10 μ A ($V_R = 5V$)
Electrostatics Discharge (ESD)	200V
Operating Temperature Range	-40 $^\circ\text{C}$ to +85 $^\circ\text{C}$
Storage Temperature Range	-40 $^\circ\text{C}$ to +100 $^\circ\text{C}$
Lead Soldering Temperature Range 1.6mm (1/16 inch) from body	260 $^\circ\text{C}$ for 5 Seconds

Electrical/Optical Characteristics at $T_A = 25^\circ\text{C}$

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	16500	25000	40000	mcd	IF = 20mA
Viewing Angle	2 θ 1/2	-	16	-	deg.	
Chromaticity Coordinate	X		0.3		nm	
	Y		0.28			
Spectral Line Half-Width	$\Delta\lambda$	-	-	-		
Forward Voltage	V _F	2.8	3.2	3.6	V	
Power Dissipation	P _d	-	-	85	mW	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	100	mA	-
Recommended Operating Current	IF (Rec)	-	20	-	mA	-

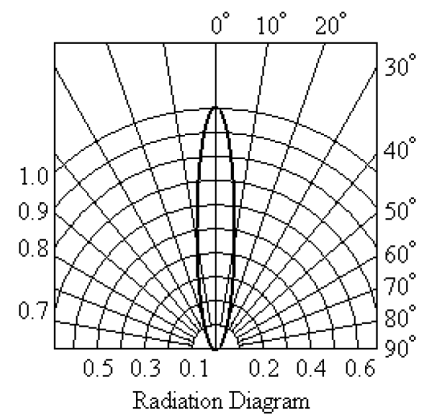
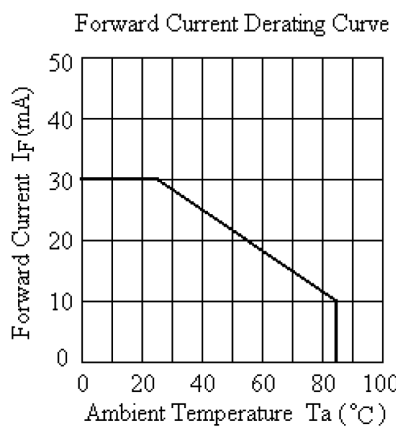
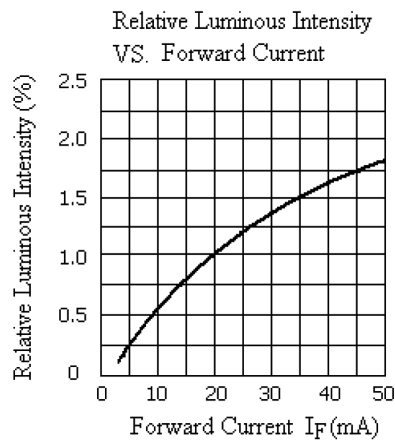
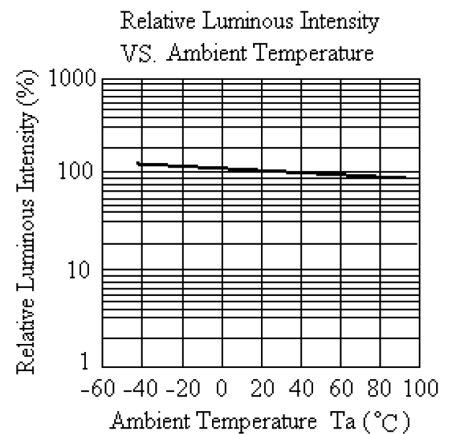
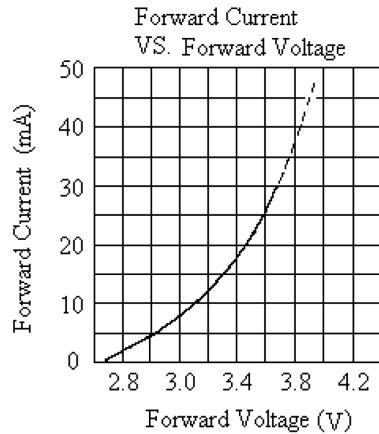
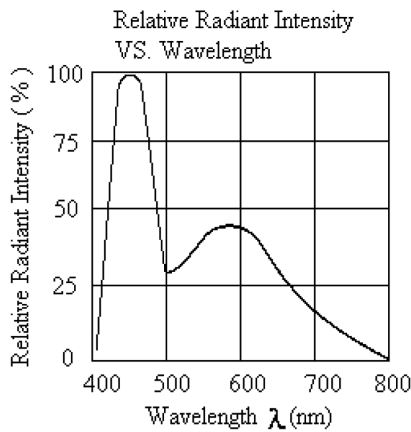
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White Typical Electrical Optical Characteristics Curves

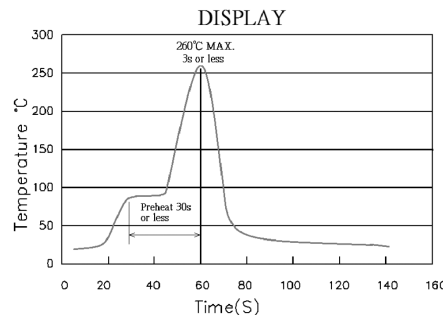
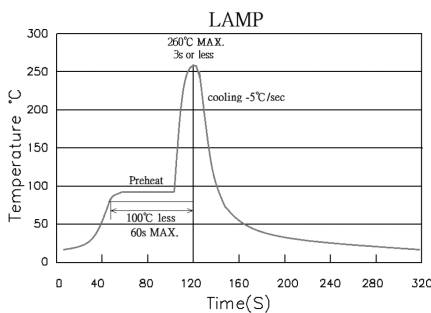
(Ta = 25°C Ambient Temperature Unless Otherwise Noted)



Soldering

Recommended soldering condition as shown below:

Soldering heat (DIP)



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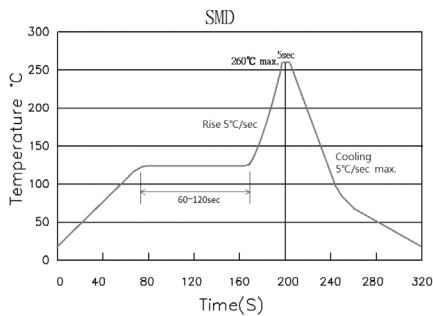
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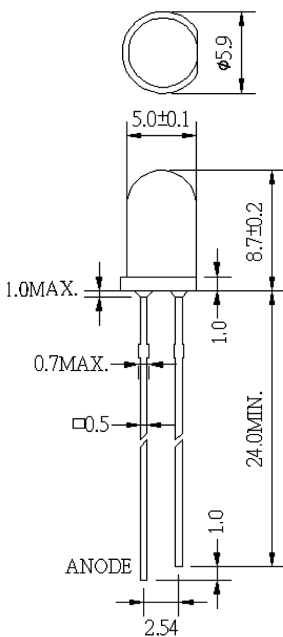
Soldering Iron

Temperature at tip of iron: 350°C Max. Soldering Time: 3sec. ±1sec. (one time only) If temperature is higher, time should be shorter.

Reflow Temp./Time (SMD)



Diagram



Dimensions : Millimetres

Part Number Table

Description	Part Number
LED, 5mm, 16°, warm super white	MCL053SWC-YH1

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